

Convergence of series of simple partial fractions in $L_p(\mathbb{R})$

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Abstract

A necessary and sufficient condition for the series {equation presented}, to converge in $L_p(\mathbb{R})$, $p > 1$, is obtained. © 2011 RAS(DoM) and LMS.

<http://dx.doi.org/10.1070/SM2011v202n10ABEH004196>

Keywords

Dirichlet series, Fourier transform, Hardy's inequality, Simple partial fractions